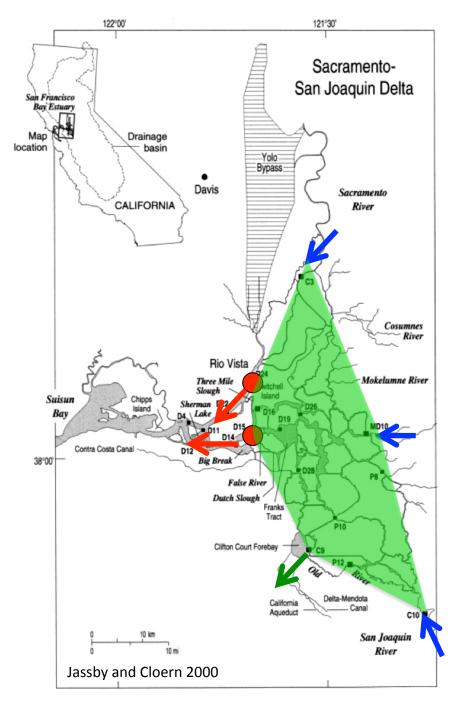


IEP Project: Nutrient loads and transformations in the Delta





Quantifying Delta N and P transformations and exports

Funder: IEP

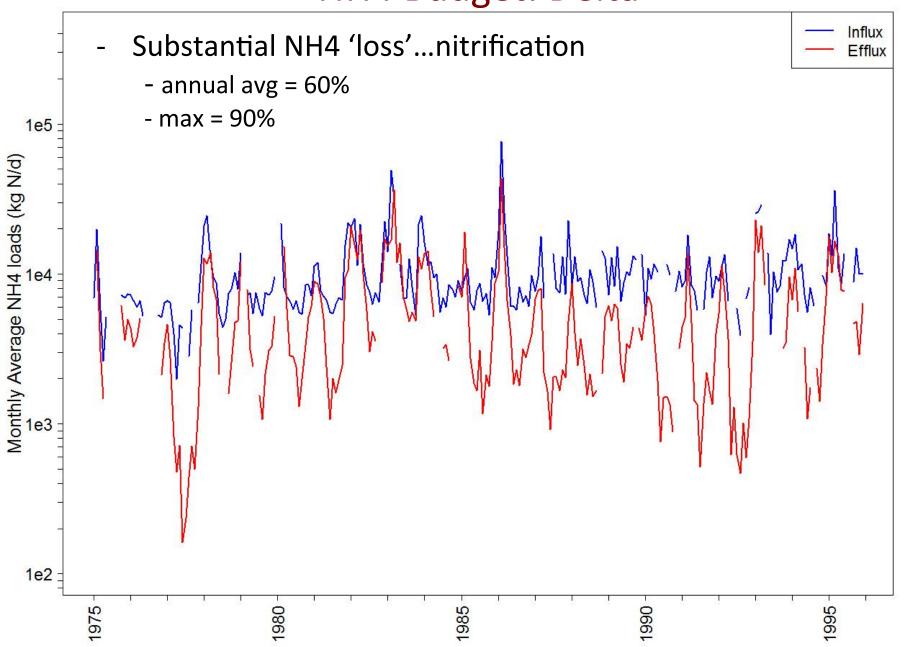
Collaboration: SFEI (Novick, Senn), RMA (Guerin),

USGS (Kendall)

Approach...

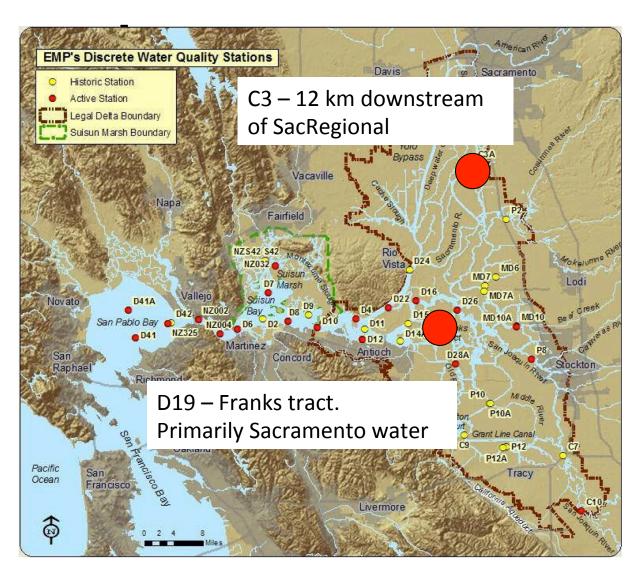
- Spatial and temporal analysis of DWR/IEP nutrient data
- Use monitoring data and flow estimates to quantify loads into and out of Delta, and budget
- Calibrate hydrologic/WQ model (DSM2-QUAL)
- 4. Use simulation modeling to quantify transformation rates under varying conditions: past, future
 - hydrology, diversions
 - changes in loads

NH4 Budget: Delta



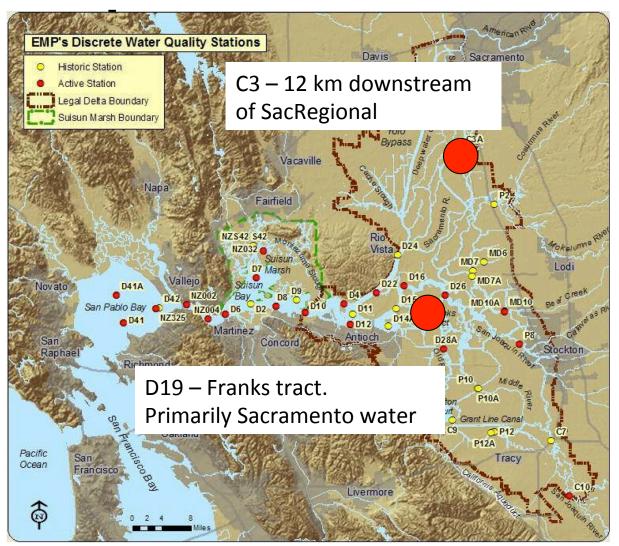
What happens within the Delta?

- where and when do transformations/losses occur?
- what conditions favor transformations/losses?



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- where and when do transformations/losses occur?
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Calibrate hydrologic/WQ model (DSM2-QUAL)

Use simulation modeling to quantify transformation rates under varying conditions: past, future

- hydrology, diversions
- changes in loads

Key building block for phytoplankton modeling and acceptable loads